



Rebecca J. Dulin  
Senior Counsel

Duke Energy  
1201 Main Street  
Capital Center Building  
Suite 1180  
Columbia, SC 29201

o: 803.988.7130  
f: 803.988.7123

Rebecca.Dulin@duke-energy.com

June 28, 2018

**VIA ELECTRONIC FILING**

The Honorable Jocelyn G. Boyd  
Chief Clerk/Administrator  
Public Service Commission of South Carolina  
101 Executive Center Drive, Suite 100  
Columbia, South Carolina 29210

Re: **Duke Energy Progress, LLC – Monthly Fuel Report**  
**Docket No. 2006-176-E**

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of May 2018.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803-988-7130.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rebecca Dulin", written in a cursive style.

Rebecca J. Dulin

Enclosure

cc: Service List

**Duke Energy Progress  
Summary of Monthly Fuel Report**

**Schedule 1**

Line No.	Item	May 2018
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$ 127,548,384
	MWH sales:	
2	Total System Sales	4,862,653
3	Less intersystem sales	217,953
4	Total sales less intersystem sales	4,644,700
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	2.7461
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	2.5113
	Generation Mix (MWH):	
	Fossil (By Primary Fuel Type):	
7	Coal	521,935
8	Oil	5,183
9	Natural Gas - Combustion Turbine	211,911
10	Natural Gas - Combined Cycle	1,429,065
11	Biogas	538
12	Total Fossil	2,168,632
13	Nuclear	2,415,817
14	Hydro - Conventional	91,063
15	Solar Distributed Generation	24,193
16	Total MWH generation	4,699,705

Note: Detail amounts may not add to totals shown due to rounding.

## Schedule 2

**Duke Energy Progress  
Details of Fuel and Fuel-Related Costs**

Description	May 2018
<b>Fuel and Fuel-Related Costs:</b>	
<b>Steam Generation - Account 501</b>	
0501110 coal consumed - steam	\$ 18,605,806
0501310 fuel oil consumed - steam	891,758
<b>Total Steam Generation - Account 501</b>	<b>19,497,564</b>
<b>Nuclear Generation - Account 518</b>	
0518100 burnup of owned fuel	16,473,119
<b>Other Generation - Account 547</b>	
0547000 natural gas consumed - Combustion Turbine	8,762,990
0547000 natural gas capacity - Combustion Turbine	1,773,723
0547000 natural gas consumed - Combined Cycle	29,262,306
0547000 natural gas capacity - Combined Cycle	9,187,847
0547106 biogas consumed - Combined Cycle	26,078
0547200 fuel oil consumed	199,331
<b>Total Other Generation - Account 547</b>	<b>49,212,275</b>
<b>Purchased Power and Net Interchange - Account 555</b>	
Fuel and fuel-related component of purchased power	41,210,277
Fuel and fuel-related component of DERP purchases	52,738
PURPA purchased power capacity	5,660,960
DERP purchased power capacity	14,403
<b>Total Purchased Power and Net Interchange - Account 555</b>	<b>46,938,378</b>
<b>Less fuel and fuel-related costs recovered through intersystem sales - Account 447</b>	<b>5,547,641</b>
<b>Total Costs Included in Base Fuel Component</b>	<b>\$ 126,573,695</b>
<b>Environmental Costs</b>	
0509030, 0509212, 0557451 emission allowance expense	\$ 1,401
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense	1,083,871
Emission Allowance Gains	(95,604)
Less reagents expense recovered through intersystem sales - Account 447	1,403
Less emissions expense recovered through intersystem sales - Account 447	13,576
<b>Total Costs Included in Environmental Component</b>	<b>974,689</b>
<b>Fuel and Fuel-related Costs excluding DERP incremental costs</b>	<b>\$ 127,548,384</b>
<b>DERP Incremental Costs</b>	<b>182,799</b>
<b>Total Fuel and Fuel-related Costs</b>	<b>\$ 127,731,183</b>

Notes: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS  
PURCHASED POWER AND INTERCHANGE  
SOUTH CAROLINA**

**MAY 2018**

**Schedule 3, Purchases  
Page 1 of 2**

<b>Purchased Power</b>	<b>Total</b>	<b>Capacity</b>	<b>Non-capacity</b>		
<b>Marketers, Utilities, Other</b>	<b>\$</b>	<b>\$</b>	<b>mWh</b>	<b>Fuel \$</b>	<b>Non-fuel \$</b>
Broad River Energy, LLC.	\$ 4,341,979	\$ 1,647,129	52,409	\$ 2,694,850	-
City of Fayetteville	309,181	302,225	469	6,956	-
Haywood EMC	34,438	34,438	-	-	-
NCEMC	3,549,236	1,285,007	53,328	2,264,229	-
PJM Interconnection, LLC.	80	-	-	80	-
Southern Company Services	3,495,487	562,380	89,468	2,933,107	-
DE Carolinas - Native Load Transfer	3,860,393	-	150,073	3,860,393	-
DE Carolinas - Native Load Transfer Benefit	185,791	-	-	185,791	-
Energy Imbalance	54,266		1,747	52,302	\$ 1,964
Generation Imbalance	163		34	99	64
	<b>\$ 15,831,014</b>	<b>\$ 3,831,179</b>	<b>347,528</b>	<b>\$ 11,997,807</b>	<b>\$ 2,028</b>
<b>Act 236 PURPA Purchases</b>					
Renewable Energy	\$ 22,310,656	-	334,597	\$ 22,310,656	-
DERP Net Metering Excess Generation	3,094	-	72	3,094	-
DERP Qualifying Facilities	64,047	-	1,324	64,047	-
Other Qualifying Facilities	12,562,774	-	212,885	12,562,774	-
	<b>\$ 34,940,571</b>	<b>\$ -</b>	<b>548,878</b>	<b>\$ 34,940,571</b>	<b>\$ -</b>
<b>Total Purchased Power</b>	<b>\$ 50,771,585</b>	<b>\$ 3,831,179</b>	<b>896,406</b>	<b>\$ 46,938,378</b>	<b>\$ 2,028</b>

NOTE: Detail amounts may not add to totals shown due to rounding.

**DUKE ENERGY PROGRESS  
INTERSYSTEM SALES\*  
SOUTH CAROLINA**

**MAY 2018**

**Schedule 3, Sales  
Page 2 of 2**

	Total	Capacity	Non-capacity		
Sales	\$	\$	mWh	Fuel \$	Non-fuel \$
<b>Market Based:</b>					
NCEMC Purchase Power Agreement	\$ 928,455	\$ 652,500	8,259	\$ 253,304	\$ 22,651
PJM Interconnection, LLC.	42	-	-	-	42
<b>Other:</b>					
DE Carolinas - Native Load Transfer Benefit	175,400	-	-	175,400	-
DE Carolinas - Native Load Transfer	5,681,829	-	209,608	5,133,916	547,913
Generation Imbalance	1,807	-	86	-	1,807
<b>Total Intersystem Sales</b>	<b>\$ 6,787,533</b>	<b>\$ 652,500</b>	<b>217,953</b>	<b>\$ 5,562,620</b>	<b>\$ 572,413</b>

\* Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress  
(Over) / Under Recovery of Fuel Costs  
May 2018

Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					4,644,699,960
2	DERP Net Metered kWh generation	Input					1,098,547
3	Adjusted System kWh sales	L1 + L2					4,645,798,507
4	Actual S.C. Retail kWh sales	Input	126,649,812	19,878,431	308,463,291	6,641,827	461,633,361
5	DERP Net Metered kWh generation	Input	379,011	17,123	702,414		1,098,547
6	Adjusted S.C. Retail kWh sales	L4 + L5	127,028,823	19,895,554	309,165,705	6,641,827	462,731,908
7	Actual S.C. Demand units (kw)	L32 / 31b *100			652,200		
Base fuel component of recovery - non-capacity							
8	Incurred System base fuel - non-capacity expense	Input					\$109,884,025
9	Eliminate avoided fuel benefit of S.C. net metering	Input					\$35,183
10	Adjusted Incurred System base fuel - non-capacity expense	L8 + L9					\$109,919,208
11	Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L10 / L3 * 100					2.366
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$3,005,491	\$470,727	\$7,314,835	\$157,145	\$10,948,198
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(\$20,798)	(\$1,921)	(\$12,464)	\$0	(\$35,183)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$2,984,693	\$468,806	\$7,302,371	\$157,145	\$10,913,015
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.210	2.210	2.210	2.210	2.210
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	\$2,798,523	\$439,313	\$6,817,039	\$146,784	\$10,201,659
17	DERP NEM incentive - fuel component	Input	(\$5,754)	(\$532)	(\$3,448)	\$0	(\$9,734)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$2,792,769	\$438,781	\$6,813,591	\$146,784	\$10,191,925
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	\$191,924	\$30,025	\$488,780	\$10,361	\$721,090
20	Adjustment	Input					
21	Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L19 + L20	\$191,924	\$30,025	\$488,780	\$10,361	\$721,090
Base fuel component of recovery - capacity							
22a	Incurred base fuel - capacity rates by class (¢/kWh)	L23 / L4 * 100	0.771	0.454			
22b	Incurred base fuel - capacity rate (¢/kW)	L23 / L7 * 100			90		
23	Incurred S.C. base fuel - capacity expense	Input	\$976,618	\$90,219	\$585,264		\$1,652,101
24a	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.471	0.371			
24b	Billed base fuel - capacity rate (¢/kW)	Input			96		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	\$596,901	\$73,749	\$ 626,111	\$0	\$1,296,761
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	\$379,717	\$16,470	(40,847.00)	\$0	\$355,340
27	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	\$379,717	\$16,470	(\$40,847)	\$0	\$355,340
Environmental component of recovery							
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.045	0.027			
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100			5		
30	Incurred S.C. environmental expense	Input	\$57,266	\$5,290	\$34,318		\$96,874
31a	Billed environmental rates by class (¢/kWh)	Input	0.035	0.024			
31b	Billed environmental rate (¢/kW)	Input			7		
32	Billed S.C. environmental revenue	L31a * L4 /100	\$43,982	\$4,771	\$ 45,654		\$94,407
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	\$13,284	\$519	(\$11,336)	\$0	\$2,467
34	Adjustment	Input					\$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	\$13,284	\$519	(\$11,336)	\$0	\$2,467
Distributed Energy Resource Program component of recovery: avoided costs							
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.003	0.002			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.362		
37	Incurred S.C. DERP avoided cost expense	Input	\$3,945	\$364	\$2,364		\$6,673
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.000	0.000			
38b	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0.000		
39	Billed S.C. DERP avoided cost revenue	L38a * L4 /100	\$0	\$0	\$0		\$0
40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	\$3,945	\$364	\$2,364	\$0	\$6,673
41	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
42	Total S.C. DERP avoided cost (over)/under recovery [See footnote]	L40 + L41	\$3,945	\$364	\$2,364	\$0	\$6,673
43	Total (over)/under recovery [See footnote]	L21 + L28 + L35 + L42	\$588,870	\$47,378	\$438,961	\$10,361	\$1,085,570

Duke Energy Progress  
(Over) / Under Recovery of Fuel Costs  
May 2018

Schedule 4  
Page 2 of 3

Year 2018-2019

Cumulative (over) / under recovery - **BASE FUEL NON-CAPACITY**

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2018	\$23,394,311					
March 2018 - actual	23,722,990	\$105,966	\$14,137	\$203,204	\$5,372	\$328,679
April 2018 - actual	23,109,283	(170,943)	(23,111)	(411,945)	(7,708)	(613,707)
May 2018 - actual	23,830,373	191,924	30,025	488,780	10,361	721,090
June 2018 - forecast	23,517,802	(99,846)	(14,265)	(193,858)	(4,602)	(312,571)
July 2018 - forecast	22,754,585	(262,316)	(33,580)	(456,561)	(10,760)	(763,217)
August 2018 - forecast	21,382,342	(469,238)	(60,504)	(823,162)	(19,339)	(1,372,243)
September 2018 - forecast	18,720,665	(909,961)	(117,476)	(1,596,522)	(37,718)	(2,661,677)
October 2018 - forecast	16,231,572	(715,791)	(119,102)	(1,615,939)	(38,261)	(2,489,093)
November 2018 - forecast	14,511,632	(635,215)	(73,042)	(988,099)	(23,584)	(1,719,940)
December 2018 - forecast	12,791,692	(635,215)	(73,042)	(988,099)	(23,584)	(1,719,940)
January 2019 - forecast	11,300,754	(591,122)	(60,932)	(819,402)	(19,482)	(1,490,938)
February 2019 - forecast	9,809,816	(591,122)	(60,932)	(819,402)	(19,482)	(1,490,938)
March 2019 - forecast	8,104,111	(640,346)	(72,454)	(969,806)	(23,099)	(1,705,705)
April 2019 - forecast	4,752,369	(1,078,503)	(154,785)	(2,069,414)	(49,040)	(3,351,742)
May 2019 - forecast\	2,691,523	(586,413)	(100,765)	(1,341,886)	(31,782)	(2,060,846)
June 2019 - forecast	\$1,664,763	(\$323,178)	(\$48,081)	(\$640,395)	(\$15,106)	(\$1,026,760)

Year 2018-2019

Cumulative (over) / under recovery - **BASE FUEL CAPACITY**

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2018	\$1,622,067					
March 2018 - actual	1,523,528	\$79,187	(\$398)	(\$177,328)	\$0	(\$98,539)
April 2018 - actual	2,089,902	479,717	34,630	52,027	0	566,374
May 2018 - actual	2,445,242	379,717	16,470	(40,847)	0	355,340
June 2018 - forecast	2,494,416	227,460	5,962	(184,248)	0	49,174
July 2018 - forecast	2,034,521	(400,463)	(17,099)	(42,333)	0	(459,895)
August 2018 - forecast	1,476,340	(418,036)	(19,250)	(120,895)	0	(558,181)
September 2018 - forecast	1,075,237	(296,697)	(9,386)	(95,020)	0	(401,103)
October 2018 - forecast	1,242,018	117,099	1,068	48,614	0	166,781
November 2018 - forecast	1,232,095	13,359	(306)	(22,976)	0	(9,923)
December 2018 - forecast	722,207	(395,260)	(6,445)	(108,183)	0	(509,888)
January 2019 - forecast	(10,577)	(725,282)	(10,382)	2,880	0	(732,784)
February 2019 - forecast	(576,847)	(532,644)	(2,882)	(30,744)	0	(566,270)
March 2019 - forecast	(677,958)	(159,512)	19,024	39,377	0	(101,111)
April 2019 - forecast	(393,220)	155,198	21,331	108,209	0	284,738
May 2019 - forecast\	55,308	293,288	16,399	138,841	0	448,528
June 2019 - forecast	\$76,492	\$44,836	\$7,845	(\$31,497)	\$0	\$21,184

Year 2018-2019

Cumulative (over) / under recovery - **ENVIRONMENTAL**

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2018	(\$616,504)					
March 2018 - actual	(648,397)	(\$9,388)	(\$802)	(\$21,703)	\$0	(\$31,893)
April 2018 - actual	(646,907)	10,886	939	(10,335)	0	\$1,490
May 2018 - actual	(644,440)	13,284	519	(11,336)	0	\$2,467
June 2018 - forecast	(653,465)	8,392	500	(17,917)	0	(\$9,025)
July 2018 - forecast	(529,560)	62,557	7,364	53,984	0	\$123,905
August 2018 - forecast	(424,248)	51,901	6,387	47,024	0	\$105,312
September 2018 - forecast	(396,433)	7,083	2,133	18,599	0	\$27,815
October 2018 - forecast	(395,361)	(5,656)	162	6,566	0	\$1,072
November 2018 - forecast	(399,794)	(8,836)	9	4,394	0	(\$4,433)
December 2018 - forecast	(352,166)	18,274	3,404	25,950	0	\$47,628
January 2019 - forecast	(95,474)	137,300	15,188	104,204	0	\$256,692
February 2019 - forecast	110,903	109,629	12,312	84,436	0	\$206,377
March 2019 - forecast	155,110	15,937	3,288	24,982	0	\$44,207
April 2019 - forecast	136,954	(18,315)	(579)	738	0	(\$18,156)
May 2019 - forecast\	130,105	(9,937)	(290)	3,378	0	(\$6,849)
June 2019 - forecast	\$189,114	\$27,797	\$3,623	\$27,589	\$0	\$59,009

Cumulative (over) / under recovery - **DERP AVOIDED COSTS**

	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
Balance ending February 2017	\$2,713					
March 2018 - actual	7,033	\$2,554	\$236	\$1,530	\$0	\$4,320
April 2018 - actual	14,508	4,419	408	2,648	0	7,475
May 2018 - actual	21,181	3,945	364	2,364	0	6,673
June 2018 - forecast	28,116	4,099	379	2,457	0	6,935
July 2018 - forecast	27,806	(2,303)	(423)	2,416	0	(310)
August 2018 - forecast	27,509	(2,322)	(433)	2,458	0	(297)
September 2018 - forecast	28,017	(1,692)	(359)	2,559	0	508
October 2018 - forecast	30,385	(18)	(321)	2,707	0	2,368
November 2018 - forecast	32,471	(196)	(276)	2,558	0	2,086
December 2018 - forecast	32,771	(1,883)	(295)	2,478	0	300
January 2019 - forecast	31,407	(3,465)	(338)	2,439	0	(1,364)
February 2019 - forecast	31,016	(2,634)	(297)	2,540	0	(391)
March 2019 - forecast	31,349	(1,930)	(282)	2,545	0	333
April 2019 - forecast	33,061	(667)	(296)	2,675	0	1,712
May 2019 - forecast\	35,319	(15)	(316)	2,589	0	2,258
June 2019 - forecast	\$36,292	(\$1,098)	(\$360)	\$2,431	\$0	\$973

Duke Energy Progress  
(Over) / Under Recovery of Fuel Costs  
May 2018

Line No.			Residential	Commercial	Industrial	Total
Distributed Energy Resource Program component of recovery: incremental costs						
44	Incurred S.C. DERP incremental expense	Input	\$108,059	\$42,883	\$31,857	\$182,799
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	1.00	2.88	99.56	
46	Billed S.C. DERP incremental revenue	Input	\$137,058	\$93,001	\$26,373	\$256,432
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	(\$28,999)	(\$50,118)	\$5,484	(\$73,633)
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	(\$28,999)	(\$50,118)	\$5,484	(\$73,633)

Year 2018-2019

Cumulative (over) / under recovery

Balance ending February 2018

March 2018 - actual

April 2018 - actual

May 2018 - actual

June 2018 - forecast

July 2018 - forecast

August 2018 - forecast

September 2018 - forecast

October 2018 - forecast

November 2018 - forecast

December 2018 - forecast

January 2019 - forecast

February 2019 - forecast

March 2019 - forecast

April 2019 - forecast

May 2019 - forecast\

June 2019 - forecast

Cumulative	Total
(\$451,744)	
(544,531)	(\$92,787)
(637,203)	(92,672)
(710,836)	(73,633)
(767,757)	(56,921)
(728,512)	39,245
(683,177)	45,335
(632,136)	51,041
(574,712)	57,424
(514,022)	60,690
(450,711)	63,311
(401,994)	48,717
(347,080)	54,914
(277,666)	69,414
(195,507)	82,159
(105,542)	89,965
(\$7,193)	\$98,349

Notes:

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as negative amounts.

Under collections, or regulatory assets, are shown as positive amounts.

\_/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.246 and RECD 5% discount.



Duke Energy Progress  
Fuel and Fuel Related Cost Report  
May 2018

Schedule 5  
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Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CT	Roxboro Steam	Mayo Steam
<b>Cost of Fuel Purchased (\$)</b>								
Coal	-	-	-	-	\$2,829,674	-	\$5,269,216	\$10,628,493
Oil	-	-	-	13,533	12,229	-	418,934	294,867
Gas - CC	-	15,947,868	6,389,396	-	-	-	-	-
Gas - CT	24	-	593,660	-	-	2,429,002	-	-
Biogas	-	-	-	-	-	-	-	-
Total	24	\$15,947,868	\$6,983,056	13,533	\$2,841,903	\$2,429,002	\$5,688,150	\$10,923,360
<b>Average Cost of Fuel Purchased (¢/MBTU)</b>								
Coal	-	-	-	-	320.47	-	354.21	311.85
Oil	-	-	-	1,292.55	2,137.94	-	1,508.04	1,506.50
Gas - CC	-	384.98	634.51	-	-	-	-	-
Gas - CT	-	-	439.70	-	-	369.77	-	-
Biogas	-	-	-	-	-	-	-	-
Weighted Average	-	384.98	611.48	1,292.55	321.65	369.77	375.36	318.67
<b>Cost of Fuel Burned (\$)</b>								
Coal	-	-	-	-	\$1,765,417	-	\$11,356,205	\$5,484,184
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	38,998	-	-	-	93,165	3,625	452,592	346,001
Gas - CC	-	15,947,868	6,389,396	-	-	-	-	-
Gas - CT	24	-	593,660	-	-	2,429,002	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	4,112,038	-	-	-	-
Total	\$39,022	\$15,947,868	\$6,983,056	\$4,112,038	\$1,858,582	\$2,432,627	\$11,808,797	5,830,185
<b>Average Cost of Fuel Burned (¢/MBTU)</b>								
Coal	-	-	-	-	316.67	-	322.61	317.92
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	1,583.35	-	-	-	1,649.23	1,647.73	1,502.83	1,509.08
Gas - CC	-	384.98	634.51	-	-	-	-	-
Gas - CT	-	-	439.70	-	-	369.77	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	69.31	-	-	-	-
Weighted Average	1,584.33	384.98	611.48	69.31	330.04	370.20	332.62	333.54
<b>Average Cost of Generation (¢/kWh)</b>								
Coal	-	-	-	-	4.85	-	3.34	3.77
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	52.00	-	-	-	23.02	19.08	17.53	17.91
Gas - CC	-	2.86	4.95	-	-	-	-	-
Gas - CT	-	-	5.00	-	-	4.23	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	0.74	-	-	-	-
Weighted Average	52.03	2.86	4.96	0.74	5.05	4.23	3.45	3.96
<b>Burned MBTU's</b>								
Coal	-	-	-	-	557,493	-	3,520,107	1,725,039
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	2,463	-	-	-	5,649	220	30,116	22,928
Gas - CC	-	4,142,539	1,006,978	-	-	-	-	-
Gas - CT	-	-	135,014	-	-	656,900	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	5,932,404	-	-	-	-
Total	2,463	4,142,539	1,141,992	5,932,404	563,142	657,120	3,550,223	1,747,967
<b>Net Generation (mWh)</b>								
Coal	-	-	-	-	36,411	-	340,145	145,379
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	75	-	-	-	405	19	2,581	1,932
Gas - CC	-	557,484	129,048	-	-	-	-	-
Gas - CT	-	-	11,871	-	-	57,475	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	556,891	-	-	-	-
Hydro (Total System)								
Solar (Total System)								
Total	75	557,484	140,919	556,891	36,816	57,494	342,726	147,311
<b>Cost of Reagents Consumed (\$)</b>								
Ammonia	-	-	-	-	-	-	\$65,211	\$27,951
Limestone	-	-	-	-	67,670	-	433,226	226,476
Re-emission Chemical	-	-	-	-	-	-	20,217	-
Sorbents	-	-	-	-	2,157	-	91,786	100,982
Urea	-	-	-	-	22,405	-	-	-
Total	-	-	-	-	\$92,232	-	\$610,439	\$355,409

Notes:  
Detail amounts may not add to totals shown due to rounding.  
Schedule excludes in-transit, terminal and tolling agreement activity.  
Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.  
Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

Duke Energy Progress  
Fuel and Fuel Related Cost Report  
May 2018

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Description	Brunswick Nuclear	Blewett CT	Wayne County CT	Darlington CT	Smith Energy Complex CC/CT	Harris Nuclear	Current Month	Total 12 ME May 2018
<b>Cost of Fuel Purchased (\$)</b>								
Coal	-	-	-	-	-	-	\$18,727,383	\$275,960,139
Oil	33,035	-	20,513	(32,894)	60,340	18,350	838,907	77,118,227
Gas - CC	-	-	-	-	16,112,889	-	38,450,153	679,701,536
Gas - CT	-	-	193,630	58,233	7,262,164	-	10,536,713	107,553,141
Biogas	-	-	-	-	96,760	-	96,760	103,222
Total	33,035	-	\$214,143	\$25,339	\$23,435,393	18,350	\$68,649,916	\$1,140,436,265
<b>Average Cost of Fuel Purchased (¢/MBTU)</b>								
Coal	-	-	-	-	-	-	324.07	318.47
Oil	1,569.36	-	3,075.41	3,159.85	1,944.96	1,772.95	1,529.73	1,706.02
Gas - CC	-	-	-	-	382.14	-	410.53	478.10
Gas - CT	-	-	358.32	316.16	282.24	-	306.53	379.59
Biogas	-	-	-	-	2,908.33	-	2,908.33	2,944.99
Weighted Average	1,569.36	-	391.45	145.81	346.27	1,772.95	368.29	435.82
<b>Cost of Fuel Burned (\$)</b>								
Coal	-	-	-	-	-	-	\$18,605,806	\$322,602,422
Oil - CC	-	-	-	-	-	-	-	48,091
Oil - Steam/CT	-	-	-	156,708	-	-	1,091,089	77,352,726
Gas - CC	-	-	-	-	16,112,889	-	38,450,153	679,701,536
Gas - CT	-	-	193,630	58,233	7,262,164	-	10,536,713	107,553,141
Biogas	-	-	-	-	96,760	-	96,760	103,222
Nuclear	9,002,893	-	-	-	-	3,358,188	16,473,119	200,898,356
Total	\$9,002,893	\$0	\$193,630	\$214,941	23,471,813.00	\$3,358,188	\$85,253,640	\$1,388,259,494
<b>Average Cost of Fuel Burned (¢/MBTU)</b>								
Coal	-	-	-	-	-	-	320.64	315.90
Oil - CC	-	-	-	-	-	-	-	1,819.57
Oil - Steam/CT	-	-	-	1,763.34	-	-	1,552.86	1,656.91
Gas - CC	-	-	-	-	382.14	-	410.53	478.10
Gas - CT	-	-	358.32	316.16	282.24	-	306.53	379.59
Biogas	-	-	-	-	2,908.33	-	2,908.33	2,944.99
Nuclear	60.94	-	-	-	-	68.91	64.40	64.92
Weighted Average	60.94	-	358.32	787.16	345.54	68.91	192.63	236.60
<b>Average Cost of Generation (¢/kWh)</b>								
Coal	-	-	-	-	-	-	3.56	3.41
Oil - CC	-	-	-	-	-	-	-	19.91
Oil - Steam/CT	-	-	-	79.55	-	-	21.05	20.57
Gas - CC	-	-	-	-	2.17	-	2.69	3.39
Gas - CT	-	-	4.73	3.79	5.30	-	4.97	4.35
Biogas	-	-	-	-	17.99	-	17.99	18.32
Nuclear	0.64	-	-	-	-	0.73	0.68	0.68
Weighted Average	0.64	-	4.73	12.41	2.67	0.73	1.81	2.22
<b>Burned MBTU's</b>								
Coal	-	-	-	-	-	-	5,802,639	102,120,194
Oil - CC	-	-	-	-	-	-	-	2,643
Oil - Steam/CT	-	-	-	8,887	-	-	70,263	4,668,505
Gas - CC	-	-	-	-	4,216,503	-	9,366,020	142,167,555
Gas - CT	-	-	54,038	18,419	2,573,008	-	3,437,379	28,334,020
Biogas	-	-	-	-	3,327	-	3,327	3,505
Nuclear	14,773,253	-	-	-	-	4,873,114	25,578,771	309,469,648
Total	14,773,253	-	54,038	27,306	6,792,838	4,873,114	44,258,399	586,766,070
<b>Net Generation (mWh)</b>								
Coal	-	-	-	-	-	-	521,935	9,459,563
Oil - CC	-	-	-	-	-	-	-	242
Oil - Steam/CT	-	(26)	-	197	-	-	5,183	376,091
Gas - CC	-	-	-	-	742,533	-	1,429,065	20,054,347
Gas - CT	-	-	4,091	1,535	136,939	-	211,911	2,469,898
Biogas	-	-	-	-	538	-	538	563
Nuclear	1,399,406	-	-	-	-	459,520	2,415,817	29,375,621
Hydro (Total System)							91,063	605,328
Solar (Total System)							24,193	250,430
Total	1,399,406	(26)	4,091	1,732	880,010	459,520	4,699,705	62,592,083
<b>Cost of Reagents Consumed (\$)</b>								
Ammonia	-	-	-	-	\$25,791	-	\$118,952	\$1,851,638
Limestone	-	-	-	-	-	-	727,372	9,891,424
Re-emission Chemical	-	-	-	-	-	-	20,217	203,128
Sorbents	-	-	-	-	-	-	194,925	2,767,166
Urea	-	-	-	-	-	-	22,405	1,017,500
Total	-	-	-	-	\$25,791	-	\$1,083,871	\$15,730,855

**Duke Energy Progress**  
**Fuel & Fuel-related Consumption and Inventory Report**  
**May 2018**

**Schedule 6**  
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<b>Description</b>	<b>Weatherspoon</b>	<b>Lee</b>	<b>Sutton</b>	<b>Robinson</b>	<b>Asheville</b>
<b>Coal Data:</b>					
Beginning balance	-	-	-	-	123,140
Tons received during period	-	-	-	-	34,928
Inventory adjustments	-	-	-	-	-
Tons burned during period	-	-	-	-	22,314
Ending balance	-	-	-	-	135,754
MBTUs per ton burned	-	-	-	-	24.98
Cost of ending inventory (\$/ton)	-	-	-	-	79.12
<b>Oil Data:</b>					
Beginning balance	653,990	-	2,638,405	78,040	2,626,929
Gallons received during period	-	-	-	7,584	4,144
Miscellaneous use and adjustments	(25)	-	-	-	(2,831)
Gallons burned during period	17,596	-	-	7,584	42,688
Ending balance	636,369	-	2,638,405	78,040	2,585,554
Cost of ending inventory (\$/gal)	2.22	-	2.80	2.44	2.27
<b>Natural Gas Data:</b>					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,009,983	1,115,070	-	640,254
MCF burned during period	-	4,009,983	1,115,070	-	640,254
Ending balance	-	-	-	-	-
<b>Biogas Data:</b>					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
<b>Limestone/Lime Data:</b>					
Beginning balance	-	-	-	-	14,295
Tons received during period	-	-	-	-	2,287
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	1,305
Ending balance	-	-	-	-	15,277
Cost of ending inventory (\$/ton)	-	-	-	-	50.55

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

**Duke Energy Progress**  
**Fuel & Fuel-related Consumption and Inventory Report**  
**May 2018**

**Schedule 6**  
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<b>Description</b>	<b>Roxboro</b>	<b>Mayo</b>	<b>Brunswick</b>	<b>Blewett</b>	<b>Wayne County</b>
<b>Coal Data:</b>					
Beginning balance	1,100,481	257,218	-	-	-
Tons received during period	59,700	135,224	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	139,143	68,529	-	-	-
Ending balance	1,021,038	323,913	-	-	-
MBTUs per ton burned	25.30	25.17	-	-	-
Cost of ending inventory (\$/ton)	81.59	80.03	-	-	-
<b>Oil Data:</b>					
Beginning balance	314,362	239,789	176,341	697,496	11,640,758
Gallons received during period	201,303	141,830	15,251	-	4,835
Miscellaneous use and adjustments	(7,472)	(2,977)	-	-	-
Gallons burned during period	216,992	166,419	8,683	-	-
Ending balance	291,201	212,223	182,909	697,496	11,645,593
Cost of ending inventory (\$/gal)	2.09	2.08	2.44	2.34	2.42
<b>Natural Gas Data:</b>					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	51,862
MCF burned during period	-	-	-	-	51,862
Ending balance	-	-	-	-	-
<b>Biogas Data:</b>					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
<b>Limestone/Lime Data:</b>					
Beginning balance	111,708	17,847	-	-	-
Tons received during period	(1,086)	8,625	-	-	-
Inventory adjustments	-	-	-	-	-
Tons consumed during period	10,261	4,898	-	-	-
Ending balance	100,361	21,574	-	-	-
Cost of ending inventory (\$/ton)	40.21	43.61	-	-	-

**Duke Energy Progress**  
**Fuel & Fuel-related Consumption and Inventory Report**  
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**Schedule 6**  
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<b>Description</b>	<b>Darlington</b>	<b>Smith Energy Complex</b>	<b>Harris</b>	<b>Current Month</b>	<b>Total 12 ME May 2018</b>
<b>Coal Data:</b>					
Beginning balance	-	-	-	1,480,839	2,055,141
Tons received during period	-	-	-	229,852	3,415,977
Inventory adjustments	-	-	-	-	24,990
Tons burned during period	-	-	-	229,986	4,015,403
Ending balance	-	-	-	1,480,705	1,480,705
MBTUs per ton burned	-	-	-	25.23	25.43
Cost of ending inventory (\$/ton)	-	-	-	81.02	81.02
<b>Oil Data:</b>					
Beginning balance	10,277,987	8,253,269	282,995	37,880,361	39,069,130
Gallons received during period	(7,545)	22,481	7,498	397,381	32,756,251
Miscellaneous use and adjustments	-	-	-	(13,305)	(183,330)
Gallons burned during period	64,610	-	18,099	542,671	33,920,285
Ending balance	10,205,832	8,275,750	272,394	37,721,766	37,721,766
Cost of ending inventory (\$/gal)	2.43	2.33	2.44	2.41	2.41
<b>Natural Gas Data:</b>					
Beginning balance	-	-	-	-	-
MCF received during period	17,972	6,618,980	-	12,454,121	165,121,296
MCF burned during period	17,972	6,618,980	-	12,454,121	165,121,296
Ending balance	-	-	-	-	-
<b>Biogas Data:</b>					
Beginning balance	-	-	-	-	-
MCF received during period	-	3,246	-	3,246	3,420
MCF burned during period	-	3,246	-	3,246	3,420
Ending balance	-	-	-	-	-
<b>Limestone/Lime Data:</b>					
Beginning balance	-	-	-	143,850	128,864
Tons received during period	-	-	-	9,826	241,746
Inventory adjustments	-	-	-	-	14,692
Tons consumed during period	-	-	-	16,464	248,090
Ending balance	-	-	-	137,212	137,212
Cost of ending inventory (\$/ton)	-	-	-	41.90	41.90

## Schedule 7

**DUKE ENERGY PROGRESS**  
**ANALYSIS OF COAL PURCHASED**  
**MAY 2018**

STATION	TYPE	QUANTITY OF TONS DELIVERED	DELIVERED COST	DELIVERED COST PER TON
ASHEVILLE	SPOT	-	\$ -	-
	CONTRACT	34,928	2,705,930	77.47
	ADJUSTMENTS	-	123,744	-
	TOTAL	34,928	2,829,674	81.02
MAYO	SPOT	-	-	-
	CONTRACT	135,224	10,508,359	77.71
	ADJUSTMENTS	-	120,135	-
	TOTAL	135,224	10,628,493	78.60
ROXBORO	SPOT	-	-	-
	CONTRACT	59,700	4,735,688	79.32
	ADJUSTMENTS	-	533,528	-
	TOTAL	59,700	5,269,216	88.26
ALL PLANTS	SPOT	-	-	-
	CONTRACT	229,852	17,949,976	78.09
	ADJUSTMENTS	-	777,407	-
	TOTAL	229,852	\$ 18,727,383	\$ 81.48

## Schedule 8

**DUKE ENERGY PROGRESS  
ANALYSIS OF COAL QUALITY RECEIVED  
MAY 2018**

<b>STATION</b>	<b>PERCENT MOISTURE</b>	<b>PERCENT ASH</b>	<b>HEAT VALUE</b>	<b>PERCENT SULFUR</b>
<b>ASHEVILLE</b>	7.11	8.38	12,640	2.99
<b>MAYO</b>	7.34	8.33	12,602	2.62
<b>ROXBORO</b>	6.48	10.18	12,459	1.02

## Schedule 9

**DUKE ENERGY PROGRESS  
ANALYSIS OF OIL PURCHASED  
MAY 2018**

	<b>ASHEVILLE</b>	<b>BRUNSWICK</b>	<b>DARLINGTON</b>	<b>HARRIS</b>	<b>MAYO</b>
<b>VENDOR</b>	Indigo	Hightowers Petroleum Co.	Indigo, Hightowers Petroleum Co. and Potter Oil and Tire	Hightowers Petroleum Co.	Greensboro Tank Farm
<b>SPOT/CONTRACT</b>	Spot	Contract	Spot	Contract	Contract
<b>SULFUR CONTENT %</b>	0	0	0	0	0
<b>GALLONS RECEIVED</b>	4,144	15,251	(7,545)	7,498	141,830
<b>TOTAL DELIVERED COST</b>	\$ 12,229	\$ 33,035	\$ (32,894)	\$ 18,350	\$ 294,867
<b>DELIVERED COST/GALLON</b>	\$ 2.95	\$ 2.17	\$ 4.36	\$ 2.45	\$ 2.08
<b>BTU/GALLON</b>	138,000	138,000	138,000	138,000	138,000
	<b>ROBINSON</b>	<b>ROXBORO</b>	<b>SMITH ENERGY COMPLEX</b>	<b>SMITH ENERGY COMPLEX</b>	<b>WAYNE</b>
<b>VENDOR</b>	Hightowers Petroleum Co.	Greensboro Tank Farm	Hightowers Petroleum Co., Petroleum Traders and Potter Oil and Tire	Petroleum Traders	Hightowers Petroleum Co. and Indigo
<b>SPOT/CONTRACT</b>	Contract	Contract	Spot	Contract	Spot
<b>SULFUR CONTENT %</b>	0	0	0	0	0
<b>GALLONS RECEIVED</b>	7,584	201,303	30,219	(7,738)	4,835
<b>TOTAL DELIVERED COST</b>	\$ 13,533	\$ 418,934	\$ 76,511	\$ (16,171)	\$ 20,513
<b>DELIVERED COST/GALLON</b>	\$ 1.78	\$ 2.08	\$ 2.53	\$ 2.09	\$ 4.24
<b>BTU/GALLON</b>	138,000	138,000	138,000	138,000	138,000



**Duke Energy Progress**  
**Power Plant Performance Data**  
**Twelve Month Summary**  
June, 2017 - May, 2018  
Nuclear Units

<u>Unit Name</u>	<u>Net Generation (mWh)</u>	<u>Capacity Rating (mW)</u>	<u>Capacity Factor (%)</u>	<u>Equivalent Availability (%)</u>
Brunswick 1	7,332,062	938	89.23	89.35
Brunswick 2	8,007,143	932	98.07	98.43
Harris 1	7,268,757	930	89.26	87.14
Robinson 2	6,767,659	741	104.26	99.86

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
June, 2017 through May, 2018  
Combined Cycle Units**

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,440,742	224	73.48	80.68
Lee Energy Complex	1B	1,446,463	224	73.69	81.05
Lee Energy Complex	1C	1,455,257	225	73.81	80.77
Lee Energy Complex	ST1	2,843,300	379	85.64	93.01
Lee Energy Complex	Block Total	7,185,762	1,052	77.98	85.23
Richmond County CC	7	1,243,399	189	75.10	82.32
Richmond County CC	8	1,232,496	189	74.44	81.78
Richmond County CC	ST4	1,400,360	175	91.35	90.36
Richmond County CC	9	1,408,644	215	74.85	79.53
Richmond County CC	10	1,430,970	215	76.04	80.69
Richmond County CC	ST5	1,891,473	248	87.07	90.17
Richmond County CC	Block Total	8,607,342	1,231	79.84	84.19
Sutton Energy Complex	1A	1,307,230	225	66.45	74.02
Sutton Energy Complex	1B	1,347,513	225	68.49	75.56
Sutton Energy Complex	ST1	1,607,305	269	68.30	84.04
Sutton Energy Complex	Block Total	4,262,048	718	67.78	78.22

## Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
June, 2017 through May, 2018**

**Intermediate Steam Units**

<b>Unit Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Capacity Factor (%)</b>	<b>Equivalent Availability (%)</b>
Mayo 1	1,689,984	746	25.86	87.58
Roxboro 2	1,953,177	673	33.13	78.85
Roxboro 3	2,362,320	698	38.63	81.14
Roxboro 4	1,404,905	711	22.56	47.38

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
June, 2017 through May, 2018  
Other Cycling Steam Units**

<b>Unit Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Capacity Factor (%)</b>	<b>Operating Availability (%)</b>
Asheville 1	675,562	192	40.17	86.36
Asheville 2	546,272	192	32.48	82.73
Roxboro 1	890,716	380	26.76	83.09

Notes:

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data  
Twelve Month Summary  
June, 2017 through May, 2018  
Combustion Turbine Stations**

<b>Station Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Operating Availability (%)</b>
Asheville CT	220,187	370	93.28
Blewett CT	227	68	93.89
Darlington CT	142,911	884	70.58
Richmond County CT	1,935,546	924	83.18
Sutton CT	-40	76	100.00
Sutton Fast Start CT	180,946	93	92.36
Wayne County CT	301,459	961	97.14
Weatherspoon CT	1,379	164	87.61

**Notes:**

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

**Duke Energy Progress  
Power Plant Performance Data**

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**Twelve Month Summary  
June, 2017 through May, 2018  
Hydroelectric Stations**

<b>Station Name</b>	<b>Net Generation (mWh)</b>	<b>Capacity Rating (mW)</b>	<b>Operating Availability (%)</b>
Blewett	95,679	27.0	86.95
Marshall	4,670	4.0	27.73
Tillery	137,961	84.0	96.53
Walters	367,018	113.0	99.63

**Notes:**

- Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.